

10/96



HAPPY HALLOWEEN



ARRL  
CLUB  
#1602



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The MICROVOLT  
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# the MICROVOLT

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The Utah Amateur Radio Club was organized under its present name in 1927, although its beginnings may date back as early as 1909. In 1928, it became affiliated with the American Radio Relay League (club #1602) and is a non-profit organization under the laws of Utah. It holds a club station license with the call W7SP, a memorial call for Leonard (Zim) Zimmerman, an amateur radio pioneer in the Salt Lake City Area. The club meets each month except July and August. The meetings are held on the first Thursday of the month at 7:30 PM in the Exhibition hall located on the Salt Lake County Fairgrounds just south of Murray City Park. Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$13 per year, including a MICROVOLT subscription. Those living at the same address as a member who has paid \$13 may obtain a membership without a Microvolt subscription for \$9. ARRL membership renewals should specify ARRL Club #1602. UARC maintains the following repeaters: 146.62 (minus) and 449.10. The repeaters are administered by the UARC repeater committee. Comments and questions may be directed to any committee member. The Lake Mountain repeater (146.76 minus offset) has Autopatch facilities on both the Orem exchange (covering Santequin to Lahi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities into Salt Lake City only. Due to the volume of traffic, only mobiles should use this autopatch. Autopatch use is open to all visitors to our area and to all club members. New members who wish to use the Autopatch are encouraged to help with and maintaining a club membership. THE MICROVOLT: The Microvolt is the official publication of the club. Deadline for submissions to the Microvolt is the 10th of each month prior to publication, except Aug. All submissions are welcome but what is printed and editing are the responsibility of the UARC board. Reprints are allowed with proper credits to the MICROVOLT, UARC, and authors.



# THE MICROVOLT

Publication of the Utah Amateur Radio Club  
**VOLUME XL ISSUE 10      OCTOBER, 1996**  
**ALL HALLOWS EVE EDITION**

*Happy  
Halloween*



**CORRECTED  
UTAH AMATEUR RADIO  
EXAMINATION SCHEDULE**  
May 14, 1996 (For more details see  
the listing of "Programs by City" at  
the end.)

Date	Location	Contact
Person	Home Ph.	Bus. Ph.

10/05/96 (Sat.) Salt Lake C.  
Gordon Smith, K7HFV 582-  
2438 534-8116

10/16/96 (Wed.) Provo Steve  
Whitehead, NV7V 465-3983 225-  
5200

10/29/96\* (Tues.) Salt Lake C.

Eugene McWherter, N7OVT 484-6355

11/02/96 (Sat.) Ogden Matt George, AB7GM  
393-9159

11/20/96 (Wed.) Provo Steve Whitehead, NV7V  
465-3983 225-5200

only Novice and Technician elements (1A, 2, and 3A)  
given at this session.

Send additions or corrections to Gordon Smith, K7HFV.

*Ham Hotline*  
*(801)583-3002*

\*\*\*\*\*



*BOO!*

## Tentative 1996 Schedule

OCT. 3: Peter H. Grillo AH3C—DX-ING

NOV 7: HomeBrew, Election Nominations and  
Microvolt Editor's birthday (25th)

DEC. 5: Elections and Plans for The New Year

### EXAMINATION PROGRAMS BY CITY

City: Brigham City      Contact Person: Bob Anderson,  
AA7TR

VEC: ARRL      Phone: 257-3021

Location: Basement of Zion's Bank at Main and First  
North

Schedule: Twice annually, spring and fall. Details vary.  
Code tests at 6 p.m. Written tests at 7 p.m.

City: Farmington  
AC7H

VEC: ARRL

Contact Person: Brent Thomas,

637 East 2150 South

Bountiful, Utah 84010

Home Ph: 298-3322 Bus. Ph: 538-

3700

Location: Davis County Jail Complex,  
800 West State St.,  
Farmington  
Service entrance

Schedule: First Wednesday of Jan., Mar., July, and Sept.,  
7 p.m.

City: Logan  
WO7N

Contact Person: Paul Hansen,

VEC: ARRL

1676 East 1600 North  
Logan, Utah 84321

Home Ph: 753-4843 Bus. Ph: 752-6425

Schedule: Second Saturday of April and October, 9:00  
a.m.

City: Ogden  
AB7GM

Contact Person: Matthew George,

VEC: ARRL

473 Hiland Road  
Ogden, UT 84404

Phone: 393-9159

Recorded exam information: 627-6064

Location: Weber State College, Science and Technology  
Building, Rm 228

Schedule: First Saturday of May and November, 8:00  
a.m.

City: Provo  
Whitehead

Contact Persons: Steve and Linda

VEC: W5YI

497 South 700 East  
Payson, Utah 84651

Home Ph: 465-3983 Bus. Ph: 225-

5200

Location: Provo Campus of Utah Valley State College

Schedule: Third Wednesday evening of each month

Notes: Do not confuse this location with the larger Orem  
campus.

City: Salt Lake City  
K7HFV

Contact Person: Gordon Smith,

VEC: ARRL

632 University Street  
Salt Lake City, Utah 84102

Home Ph: 582-2438 Bus. Ph: 532-3400

Ext. 8116

Location: Blue Cross/Blue Shield Cafeteria

2455 East Parley's Way, main (west) building,

West door Schedule: First Saturday of Feb.,

## THE MICROVOLT

APR, June, Aug. and Dec.

20 w.p.m.: 8:00 a.m.

13 w.p.m.: 8:30 a.m. 5 w.p.m.: 9:15 a.m.

No code test needed: Any time

between

8 and 10 a.m.

Notes: Preregistration is required.

The owners of the building require that  
the door be kept locked. Those who preregister will  
receive the code required to get in. Preregistration also  
speeds the session and gets licenses on the way faster  
after the session. It takes only a few minutes by phone or  
on the air. Gordon usually  
monitors 146.62.

City: Salt Lake City  
McWherter, N7OVT  
VEC: W5YI

Contact Person: Eugene

536 E. Leland Avenue  
Salt Lake City, Utah 84115

Home Ph: 484-6355

Location: Granite High Seminary Building  
Approximately 33rd South and 5th East

Schedule: Last Tuesday of each month, 7 p.m.

Notes: This session is intended primarily for those  
seeking Novice,

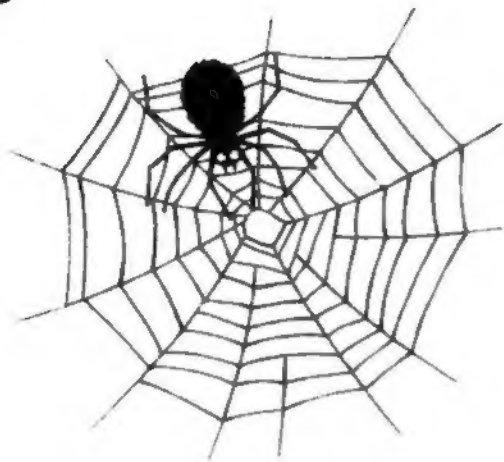
Technician, or Technician-plus licenses. Only elements  
1A, 2 and 3A will be administered. Pre-registration is  
required.

### THINGS TO BRING TO TEST SESSION

1. Two forms of ID (If licensed, your original and one form of ID)
2. \$6.05 - Cash or Check.
3. A copy of your licensee, and or copies of your pending 610  
form or certificate of credit along with the original.
4. You may bring a filled out 610 form or a form will be available at  
the test session.
5. Pencils or pens.
6. You may bring a calculator but you must show that it is not  
pre-programmed.

You may use a typewriter or lap top computer only if you make  
arrangements in advance.





### UARC WEB PAGE ADDRESS!

<http://www.xmission.com/~uarc>

MY COMPUSERVE ADDRESS 73060,1510

OUR ARRL SECTION MANAGER

JIMKATPA@AOL.COM

ARRL HOME PAGE [HTTP://WWW.ARL.ORG](http://www.arl.org)

CALL SIGN LOOKUP

[HTTP://WWW.UARL.EDU/DOC/HAMULR/CALLSIGN.HTML](http://www.uarl.edu/doc/hamulr/callsign.html)

CANADIAN BACON (HAMS)

[HTTP://WWW.RAC.CA](http://www.rac.ca)

DX INFO

[HTTP://WWW.CLINETIFI/~JUKKA/WEBCLUSTER.HTML](http://www.clinetifi/~jukka/webcluster.html)

ELECTRONIC SWAPMEET

[HTTP://WWW.WESTES.COM/ADS/ADS.HTML](http://www.westes.com/ads/ads.html)

OUR FEDERAL GOVERNMENT

[HTTP://WWW.FEDWORLD.GOV](http://www.fedworld.gov)

F.C.C. [HTTP://WWW.FCC.GOV](http://www.fcc.gov)

HOUSE OF REPRESENTATIVES

[HTTP://WWW.HOUSE.GOV](http://www.house.gov)

INTERNET/PACKET GATEWAY

[HTTP://WWW.W2XO.PGH.PA.US](http://www.w2xo.pgh.pa.us)

I.T.U. INFO [HTTP://WWW.ITU.CH](http://www.itu.ch)

LAT/LONG LOOKUP

[HTTP://WWW.MIT.EDU:8001/GEO](http://www.mit.edu:8001/GEO)

NEIGHBORHOOD ANTENNAS

[HTTP://WWW.HAMWEB.COM/~SJL/STONER/ANTENNA.HTML](http://www.hamweb.com/~sjl/stoner/antenna.html)

NTIA [HTTP://WWW.NTIA.DOC.GOV](http://www.ntia.doc.gov)

SARAX

[HTTP://WWW.NASA.GOV/SAREX/SAREX\\_MAINPAGE.HTML](http://www.nasa.gov/sarex/sarex_mainpage.html)

## THE MICROVOLT

WHOWHERE? (FIND PEOPLE YOU ARE  
LOOKING FOR) [WWW.WHOWHERE.COM](http://WWW.WHOWHERE.COM)

## UTAH AMATEUR RADIO CLUBS

UARC or Utah Amateur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Theatre Building located on the Salt Lake County Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting at 7:00 PM.

The Davis County Amateur Radio Club meets the 2nd Saturday of each month at 10:00 AM at the Davis County Sheriff's Office, 800 West State street, Farmington UT. Members and nonmembers are welcome. Dues are \$15.00 per year and can be paid at any club meeting. The Davis Club supports the 147.04 repeater. DAVIS ARES conducts a net each Thursday at 7:00 PM on 147.42 simplex. They also have a DAV mode for packet on 145.07. For further information please contact Mel Parkas, NSUVP 299-3430.

OARC or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Cross building at 2955 Harrison BLVD. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, Utah 84409. OARC supports the 146.90 repeater and conducts a net there Tuesdays at 7:30 PM. They also support the 146.82 repeater. The contact person is Jerry Peters WA7ADK who can be reached at 825-8798. The VHF Society is a group dedicated to maintaining a system of repeaters in our area. Dues are \$10.00 per year and can be sent to PO Box 482 Bountiful Utah 84011-0482. The VHF Society holds a swap and traffic net for it's members each Tuesday night at 8:00 P.M. on the 146.940 repeater. For further information please contact Eldon Karl KB7OGM at 571-9955.

Salt Lake County ARES (Amateur Radio Emergency Services) conduct a net each Wednesday Night at 8:00 PM on the 146.88 repeater. All amateurs are welcome to participate. Their in-person meeting is held the third Wednesday of each month. For more information please contact John Parkas. KA7GZII at 278-5846 or Richard Evans N7PCE at 265-9346.

Utah Valley ARES holds their general meeting the 1st Tuesday of every month at 7:00 PM. They also conduct a net each Tuesday at 9:00 P.M. on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Robert Earl. N7EGG at 225-8870



**MARA** or **Mercury Amateur Radio Association** is a world wide group of Radio Amateurs dedicated to training and traffic handling for emergency operation. They conduct VHF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 MHz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact person is Willy Peaks N7VVL at 466-1114. The Ogden area is on the 145.49 repeater and the Provo area on the 145.37 repeater with Vince Newmeyer N7MLP at 785-5611 as their contact person.

**UPRA** (Utah Packet Radio Association) holds their general meeting on the 2nd Saturday of each month at 2:00 PM at the State Capitol Annex Building north of the State Capitol. All amateurs are welcome. The purpose of the club is to educate people who are new to packet and to coordinate packet activities. Their dues are \$15.00 per year and can be sent to PO Box 92 Riverton, UT 84065. Their contact person is Jack Christensen, K67NX at 277-6629.

**UBET** (Utah Box Elder Thielke) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 149.29 repeaters. This net is followed by a CW net at approx. 8:30. Net control is Phil Siefkas K17LM, Garland UT.. They also meet the first Thursday of every month at 7:00 PM in the basement of the Zions Bank on the corner of main and first north in Brigham City. Their contact person is Stew Greenwood AB7BA at 863-2795.

**THE BRIGERLAND AMATEUR RADIO CLUB** meets the 2nd Thursday of the month (except June, July, and August) in the basement of the Sheriffs Office. They hold a net at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Dean Stevens N7WVY at 753-2664.

**THE UTAH TCP/IP Users Group Of UTUG** is an informal group that discusses TCP/IP protocols and other packet information. The are geared to all levels of users, new and seasoned. They hold a weekly net Sundays at 8:00 PM on the 146.620 repeater. Their contact person is Matt Simmons K67MH at 965-1038

**The High Valley Net** from Heber meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Doug Neilson, N7PPW at 756-5927 or Joe Chenworth, K67GY at 564-3598

**The University of Utah Radio Club** is open to University Staff, alumni and students. There is a fully equipped station available 24 hours a day. Their contact persons are Marvin Match KA7TPH at 581-6085 or Glist Turner KA7OEI at 972-5541

**The Salt Lake Community College Amateur Radio Club** is open to anyone. They would like to welcome interested parties to join them. They meet on the South campus in room N285 on the first Saturday of the Month at 3:00 PM. Please contact Keith K17SL at 957-3247

**Rocky Mountain Radio Assn.** is open to all Utah hams and they support the 447.900, 448.400, 448.700 repeaters. Their net is on 447.800 and 52.525 (six meters) every Wednesday night at 8:00.

Please contact Marc Peterson (KB7YJJ) at 977-1845 for info!

## THE MICROVOLT



IF YOU HAVE ANY  
GREAT IDEAS FOR THE  
MICROVOLT PLEASE  
SEND THEM TO COKIE  
EDDY 8719 NEWELL  
DRIVE, WEST JORDAN  
UTAH 84088



### Special Announcements

#### UARC to Hold Beginners' Class

The Utah Amateur Radio Club in conjunction with the East High Community School will be sponsoring a class for those interested in obtaining amateur radio licenses. The class will be held at East High School and will begin October 3 and continue through Dec. 5th. The class will include instruction in the International Morse Code as well as electronic theory and regulations necessary to pass the written portion of the license examination. Material will be sufficient to prepare the applicant for license classes of Novice, Technician, or Technician-Plus.

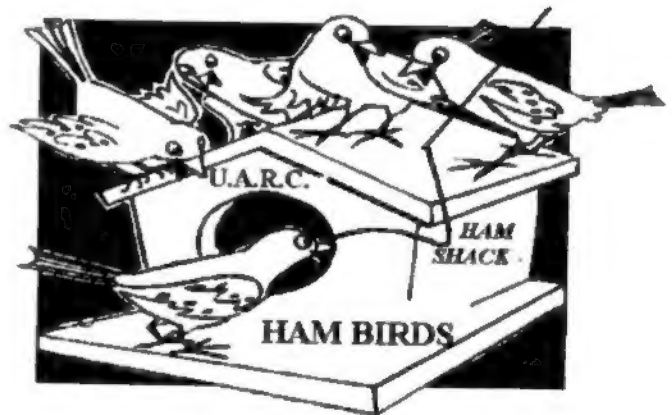
The class will be held each Thursday evening from 7-9 p.m. except for Oct. 31 (Halloween) and November 28 (Thanksgiving Day) Cost of the course will be \$35, which includes the main text, "Now You're talking" published by the ARRL. To register, contact the East High Community School, 584-2901. Their office is open weekday evenings from 3 p.m. to 7 p.m. starting September 3. The class will also be listed in a brochure distributed to city residents. Those who receive the brochure may register by mail.



HAVE YOU BEEN BREWING SOMETHING UP THAT YOU MIGHT LIKE TO SHARE WITH US NEXT MONTH? DONT FORGET THAT HOMEBREW IS GOING TO BE NOVEMBER 7TH! (MY BIRTHDAY) WOULDN'T YOU KNOW IT THAT I GOT ELECTED EDITOR OF THIS HAMRAG (I SAY THAT



ENDEARINGLY) ON MY BIRTHDAY!-ED



Brrrr, it certainly is cold outside!

Come with me, on a little mental journey, away from the cold and damp. Let's take a conceptual walk in the

sun. Begone, you gloom! Away bitter fall wind, let the sun shine. When shall it be?

Truly, that is a rather unusual question.

However, in our mind's eye, we can see whatever we wish regardless of the falling leaves. Carl Sagan, in his Cosmos series, used the term "ship of the imagination" and, with that phrase, voyaged among the stars.

I spoke to the Trustee. (Not really, but Ron understands this is just fiction) I asked him to contact

Mr. Sagan, could I borrow his "ship"? Was I surprised, what a lot of red tape, just to borrow an imaginary Ark! And the cost! I begged him to allocate some of the Club's funds. He told me I was "nuts". "Real money for the rental of a phony ship?" he squawked, (more on squawking later.)

"take two aspirin, go to sleep, and above all - don't call back" were his last words! Therefore, as previously mentioned, we will be taking a walk.

Now that the format of this article is clearly established, let's return to the question of when it shall be.

Hmmm, I know, October 5th, a genuinely great day. Ahhh, fall is fine.. With when taken care of, **where** becomes an issue. As the repeater's "back yard" is a way up on Farnsworth Peak, that seems an appropriate place.

At least, our trustee will not be griping about my hitting the treasury. Whew, it's not easy to take a fall time walk when the Editor is writing this in the end of the summer with the cooler on!

Should I take a rig with me? It's kind of comforting to have it with me. Ya never know when you will find a brown paper bag full of old hundred dollar bills; and need to use the Autopatch to call the Police Department to report the find. That's reason enough to take it. Yipes! Where did I put it? Not here, not there; it's gotta be somewhere in, around, or under this mess!! Poke, poke, prod, prod, uh-oh, AVALANCHE! Remind me to not stack drafts of Microvolt articles on the ol' HT. To keep the weight down, just the small battery for this trip. Darn, the battery is dead! O well, who needs a radio on a nature walk anyway.

Did you hear it? e e e There it is again! e e e

That's the song of the Small headed dit maker. Poor bird, never managed to learn any more of the code. Dit dit dit what a monotonous song. It's especially easy to recognize the Small headed dit maker, just look in the direction of the sound, this bird is always alone. Other birds are quickly driven off e e e dit dit dit eek! Did you notice the single large talon on the bird's right claw?

Its primary use is to generate a string of "discourteous-courteous" tones. An unfortunate (for the small head) side effect is that the tones attract Control Hawks.

Look, over in the Weeping Willow tree; there's an Easily Ruffled Grouse. Known for its thin skin, the mere flapping of other bird's wings causes this bird to squawk.

## THE MICROVOLT

This bird often screeches, in a loud and raucous manner, just to hear its own song! The Easily Ruffled Grouse perches on a repeater frequency and waits for any bird to grouse at. With a large body and small wings, this bird lurks, waiting for prey. Most other birds, when squawkily attacked, will coo a few times, pleasant nothings; and QSY to perch on a different frequency. Always, in their own beaks, the bird-a-fication of perfection; the Easily Ruffled Grouse is constantly finding fault with, and "correcting" other birds.

Shhh, walk quietly, let's not disturb them. Look over in the Quacken Bush, do you see the pair of birds? This is a very rare moment in any bird watcher's career, the mating of the Flappy Beaked Time-out with the Long Winded Dropper. Many experts are concerned these species will become extinct; as they rarely stop chirping long enough to mate. The Flappy Beaked Time-out has not learned to adapt and live with technology. It is believed that this bird has only one "song", but no one has ever heard the ending. In contrast, the Long Winded Dropper has adapted to technology well. The latter is able to complete it's song, however, it suffers from the irresistible urge to sing the same song over and over.

Honk! Honk! That's the sound of the Yellow Bodied Passenger Pigeon, there are always plenty of them around, except when you want to find one. A somewhat recent arrival to our air-ways, these birds are often seen flocking in great numbers. A very street wise bird, the Yellow Bodied Passenger Pigeon can be distinguished by the prominent "chip" on its wing.. Preferring straight squawking to coded "chirp-missions", this species is very resistant to change. Unlike most other birds, this bird is active 24 hours a day.

Known for their rapid acceleration and deceleration, the Yellow Bodied Passenger Pigeon is also an expert navigator.

Their distinctive lack of markings enable them to spot their own kind at great range. However, they frequently fail to realize that their calls cannot reach the more distant habitats.

Oh no! Don't listen! We stumbled into a flock of Foul Mouthed Louts. Though these birds consider themselves quite colorful, most of us find them rather dull. Unwilling or unable to hunt for their own food, they develop "foul mouths" from the eating of carrion and other waste products. They are distinguished by their warblelization of what, in actuality, they are unable to achieve. Most Foul Mouthed Louts lack any semblance of good manners. A word to the wise: If your nest will be visited by a Foul Mouthed Lout, be sure to have plenty of newspaper on the floor. In addition to verbally fouling the air, they ah, ah, well, you get the point. Most of our "birds" are "good birds". It would not be a fair conceptual



Fall Time walk if we did not notice the majority. They have a lot in common. They look to help, are slow to find fault, and genuinely enjoy just plain being nice.

What a nice song! The warble of the Golden Throated Elmer is music to the new Ham-bird's ear. As well it should be! It is the Golden Throated Elmer that teaches our young birds to fly.

One of the nicer aspects of bird watching is the variety, ya just never know what you will see and/or hear. One of the tougher aspects of bird watching frequently is just finding the bird. However, often the task is simple.

Perhaps the easiest bird of all to find is the Constant Calling Repeater Rooster. This nostalgic bird appears to be operating a single crystal radio and generally roosts on one repeater frequency; for seemingly endless hours. Always a "legal eagle"; after ID'ing, the call of this bird is "listening." The song is repeated in rapid succession. [Ed: sometimes so rapidly that the repeater does not drop between "listening(s)".] One wonders if there is any desire on the part of this bird to hear a reply. Fellow bird watchers be advised: the best time to hear the real songbirds is when the Constant Calling Repeater Rooster pauses for birdseed.

Hmmmm, it's getting a bit cold out here, just one more bird to complete our "walk."

This time, I have spotted the most common bird of all: The Hamis Typicalis can be found all over the world. Known for its good manners and friendly attitude, this is the bird of good deeds. This bird is so common that it does not draw much attention to itself. The Hamis Typicalis tends to blend into the background. It is most likely to appear when needed, it tends to sing little; but do much, especially good deeds. We wish these birds would sing a bit more.

Well, that is it for my Central Park Bird watching walk. Too bad the trustee would not spring for the rental of Mr. Carl's Ark. However, I did have a good time, learned a few things and enjoyed sharing my observations with my fellow hams.



*I WANT EVERYONE TO KNOW THAT THERE WAS AN ACTUAL REASON FOR ME TO WRITE ABOUT THESE BIRDS. WE HAVE BEEN HAVING A LOT OF PROBLEMS WITH SOME (?) OF OUR BIRDS LATELY, AND I WAS WONDERING IF SOME OF THESE OL' BIRDS REALIZED WHO THEY WERE? ARE YOU A FOUL MOUTHED LOUT? DO YOU GET ON THE RADIO AND JUST HAVE TO BE*

## THE MICROVOLT

*TOLERATED? DO YOU PLAY MUSIC OR BROADCAST ON THE RADIO? NOT ONLY IS THIS NOT NICE AND COURTEOUS, THIS IS AGAINST THE LAW. YOU KNOW WHO YOU ARE. YOU CAN BE MORE OF A HELP TO THE CLUB IF YOU TRIED TO SHOW SOME RESPECT FOR THE AIRWAVES AND YOUR FELLOW HAMSTER. -COKIE EDDY KC7MDV*

*BY THE WAY, IF THE CLUB DOESN'T HELP WITH AN ARTICLE NOW AND THEN, I WILL KEEP WRITING ABOUT THESE BIRDS..(HI)*

## FEATURE OF THE MONTH

### WHO WAS THE ONLY FEMALE PREZ?

THIS MONTH WE ARE FEATURING ELAINE JONES N7BDZ THE ONE AND ONLY WOMAN PRESIDENT OF UARC. ELAINE WAS ELECTED PRESIDENT OF UARC DEC. 1968. SHE WOULD LIKE TO CHALLENGE ANY WOMEN INTERESTED IN BEING PRESIDENT TO GO FOR IT. ELAINE WAS ALSO ON THE WIMU COMMITTEE WHEN IT WAS UTAH'S TURN HOST IT IN 1988. IT WAS HELD IN IDAHO AT THE MACK'S INN'S INN FOR THE LAST TIME BECAUSE SHORTLY AFTER THAT MACK'S INN BURNT DOWN.

ELAINE BECAME INTERESTED IN THE HOBBY THROUGH HER HUSBAND RON JONES K7RJ. SHE RECEIVED HER FIRST HAM LICENSE IN 1978 WHEN SHE AND HER HUSBAND WERE LIVING IN DALLAS TEXAS. ELAINE WENT FROM ABSOLUTELY NOTHING TO GENERAL IN ONE SHOT. SHE NOW HAS HER ADVANCED LICENSE. HER FAVORITE ASPECT OF AMATEUR RADIO IS THE INTERESTING PEOPLE SHE HAS MET. ELAINE AND RON HAVE FRIENDS FROM ALL OVER THE WORLD. THESE DAYS ELAINE ISN'T VERY ACTIVE BUT WHEN SHE IS HER FAVORITE MODE IS TEN METERS WHEN THE SUNSPOT CYCLE IS AT IT'S HIGHEST PEAK WHICH OCCURS EVERY 11 YEARS. ELAINE ALSO GETS ON TWO METERS EVERY NOW AND THEN WHEN SHE NEEDS TO COMMUNICATE WITH HER HUSBAND RON K7RJ AND HER SUN DENNIS WHO HAS HIS NO CODE LICENSE

KC7KDX. FOR MANY YEARS ELAINE HAS BEEN A MEMBER OF YLRL.

FOR 13 YEARS ELAINE HAS WORKED FOR GENTNER COMMUNICATIONS WHICH MANUFACTURES EQUIPMENT FOR BROADCASTING. ELAINE WORKED IN THE MARKETING AND SALES DEPARTMENT. ELAINE SAYS THAT IF THERE ARE ANY WOMEN INTERESTED IN SEEKING HIGH TECH JOBS AMATEUR RADIO FANTASTIC BASIS TO START WITH. ELAINE SAYS THAT THE ELECTRONIC KNOWLEDGE SHE GAINED WHEN STUDYING FOR HER ADVANCED LICENSE WAS A TREMENDOUS ASSET FOR HER WHEN SELLING AND MARKETING ELECTRONIC EQUIPMENT.

ELAINE WOULD LIKE TO SEE MORE YOUNG PEOPLE INVOLVED IN AMATEUR RADIO, BECAUSE THIS IS AN EXCELLENT WAY FOR YOUNG PEOPLE TO INTERACT WITH ADULTS.

ELAINE, GOOD LUCK IN YOUR ENDEAVORS.  
73 N7HVF LINDA REEDER



## NEWS LINE IN TROUBLE AGAIN

ANDY JAREMA N6TCQ SAYS THAT NEWS LINE IS ONCE AGAIN VERY BROKE. ANDY JAREMA IS THE ADMINISTRATOR OF THE NEWS LINE SUPPORT FUND. HE SAYS THAT THERE IS LESS THAN 100 DOLLARS AVAILABLE IN THE ACCOUNT. THE DONATIONS GO DIRECTLY TOWARD PAYING OUR MONTHLY PHONE BILLS AND ELECTRONIC SERVICES.

THIS IS HOW WE GET THE NEWS AND IT IS HOW WE DELIVER IT TO YOU. IF WE LOSE THE TELEPHONE, E MAIL OR BOTH WE'LL HAVE NOW WAY TO GET THE NEWS AND NO WAY TO DISSEMINATE IT TO YOU. KEEP IN MIND THAT NEWS LINE IS ALWAYS THE FIRST SOURCE OF NEWS ABOUT THE WORLD OF AMATEUR RADIO. WE TEND TO BE WEEKS AHEAD OF ANY OF THE NEWS LETTERS AND MONTHS AHEAD OF ANY MAGAZINE BRING YOU THE INFORMATION YOU NEED TO BE A MODERN DAY RADIO AMATEUR. AS YOU HAVE HEARD IN A BROADCAST OF SEVERAL WEEKS AGO TWO OF THE NATIONS LEADING HAM RADIO NEWS LETTERS ARE FINALLY REPORTING A TRULY IMPORTANT STORY THAT NEWS LINE BROUGHT YOU IN EARLY JULY, THAT WILL AFFECT EVERY AMATEUR RADIO OPERATOR IF THE LITTLE LEOS TAKE OVER THE

## THE MICROVOLT

TWO MOST HEAVILY USED AMATEUR UHF AND VHF BANDS. THIS WAS A VERY IMPORTANT ISSUE BROUGHT TO THE FCC AND IT WAS NEWS LINE WHO BROUGHT THIS IMPORTANT STORY TO YOU LONG BEFORE ANY NEWS LETTER OR MAGAZINE WENT IN THE MAIL, BUT NONE OF THIS COMES WITH OUT EXPENSE. IT COSTS MONEY TO ACHIEVE THE QUALITY AND ACCURACY OF REPORTING THAT YOU COME TO EXPECT FROM NEWS LINE AND WE NEED THE ASSISTANCE OF EVERY LISTENER WHO APPRECIATES NEWS LINE TO HELP KEEP IT ON THE AIR.

THE NEWS SUPPORT FUND IS SEPARATE FROM THE SERVICE ITSELF AND EXISTS FOR THE PURPOSE OF CHANNELING DONATIONS DIRECTLY TO THOSE PROVIDING SERVICES TO THE NEWS LINE ORGANIZATION. IF YOU WOULD LIKE TO SEE THIS SERVICE CONTINUE SEND YOUR DONATIONS TO POST OFFICE BOX 660937 ARCADIA, CALIFORNIA 91066  
73 N7HVF LINDA REEDER

## J-POLE PARTY

HAVE YOU WANTED TO BUILD A J-POLE ANTENNA BUT DIDN'T HAVE THE MATERIALS OR DIMENSIONS?

WAIT NO MORE...

COMING IN OCTOBER...

ALL THE HELP, MATERIALS, TUNING EQUIPMENT YOU WILL NEED...



J-Pole Antenna  
Unity Gain  
Broad Band  
Width  
easy to build.

\$10.00 PER ANTENNA...

WORKS ON UHF AS WELL...

WILLY PEAKE (N7VVL) AND BRAD NUTTALL (AB7MA) ARE SPONSORING THIS PARTY TO GET PEOPLE INVOLVED WITH A PROJECT

## Details

AND MEET THE NEWER HAMS. THE \$10.00 UP FRONT WILL COVER THE COST OF MATERIALS FOR YOUR ANTENNA. PLEASE LET US KNOW THE MOST CONVENIENT TIME FOR YOU TO BUILD YOUR ANTENNA, SUCH AS: SAT AM, WED PM, ETC.

PLEASE CONTACT WILLY AT 485-3131 WEEKDAYS TO MAKE ARRANGEMENTS.

*DON'T FORGET TO COME TO THIS MONTH'S MEETING! PETER GRILLO WILL BE DOING A PRESENTATION ON (DXING)!*

AH3C  
Peter H. Grillo  
ah3c@burgoyne.com

## "DX IS"

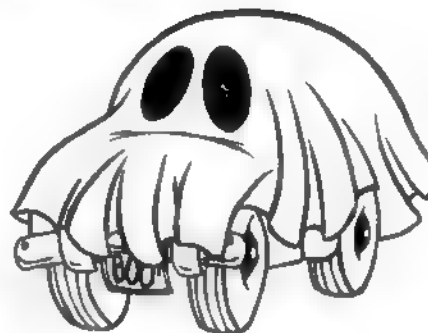
To run a mere 100 watts into a wire antenna just 30 feet above the ground and have a station several thousand miles away come back to you is the mystery of working DX. If this event doesn't amaze you every time it happens, then you won't last as a DXer...you may be intrigued, but the bug won't bite. When we discuss DX, we are not talking satellite hops, or repeater technology. Our goal is to use solar radiation (or the lack of it) to our best advantage in order to bend our signals around the globe!

On October 3rd, Pete Grillo (AH3C) will put on a presentation of what DX is all about. He will give you a little history, then show you a typical DXpedition. There will be a discussion on finding DX, equipment needs,

## THE MICROVOLT

operating tactics (Do's and don'ts) needed to snag the rare DX, DX award programs, publications, computer programs, and more.

Pete has been a DXer since he first got on the air as KN9PDH in 1958 in Elkhart, Indiana. Other call signs either owned or operated from: DL5HI (Germany), W5LZG (Texas), W0LUD (Iowa), W9LVT (Illinois), W6RTT and N6CJ (California), XE1FX (Mexico), KP4RF (Puerto Rico), BY1QH (Peoples Republic of China), KNOE (Colorado), AH3C (Johnston Island), T32BS (Christmas Island), AH3C/KH5J (Jarvis Island), AH3C/I2 (Italy), AH3C/4X (Israel), IS0QDV (Sardinia), PTOF (Fernando De Noronha Island), and C4A (Cyprus).



## HANDI-HAM WORKSHOP

By Linda Rooder-N7AVF

This year Handiham camp in Minnesota was fantastic as usual. They decided to change the name camp to workshop. Anyway, the instructors from novice to extra computers and operational skills were ready and excited to teach. Doctor Dave Justice KNOS who is the

extra class instructor only had one student and the student was going to be late coming to the workshop so Doctor Dave was excited to sit in on the computer class the first two days. He said that he didn't know too much about computers because his secretary took care of all of that. We learned about the Internet, but we weren't able to get in to it like we did in California because the phone system wasn't very good. It is good to know individuals who are blind can use the Internet by way of DOS by using keyboard commands such as up arrow and down arrow to go through the menu choices and then using the right arrow when you found the one you want. When selecting a service a sighted impaired individual needs to make sure the server has UNIX access.

This year they combined the computer class and the operational skills class. Diane Scalzi W18K who is very active in NTS which stands for national traffic service. Diane gave a presentation on traffic handling. Diane has compiled a book on traffic handling. This book includes the ARRL message format.

Copies of this book were available in large print and Braille and each of us were given a copy of the book. Traffic messages have precedence. For example emergency has top priority, then priority messages, welfare and then routine. Routine messages typically are greetings, birthday wishes, congratulations, etc. When sending a message they don't want it to be any more than 25 characters that is why the ARRL has numbers that stand for different messages such as 56 means congratulations on your most worthy and deserved achievement. This way you can have more in your message. Diane had each of us write a message and send it to some one. I sent mine both by packet and by low band phone because I wanted to see which one would get to Bruce first. It took packet longer. It hasn't even arrived yet. You can also send your message by way of Morse code.

Ev Anderson WB0IAT gave an excellent presentation on repeaters. He brought one of his back up repeaters to the workshop to let us feel. Ev Anderson WB0IAT and Janet KOJA and Janice KOJE Ribidoux own two repeaters 2 meters and 220.

The recreational activities were lots of fun, riding the pontoon boats, a trip to Itasca state park, going

## THE MICROVOLT

shopping and Doctor Dave KNOS gave a fantastic presentation on antennas. He talked about the type of antennas you can use in apartments. His talk was so good that it would be neat if we could get him to talk to our club.

- 73 N7HVF Linda Reeder

## THE ARRL ANNOUNCES THE ARRL SATELLITE ANTHOLOGY 4th ED.



The American Radio Relay League is pleased to announce the ARRL Satellite Anthology 4th Ed., the latest and most up-to-date source of information on current and future Amateur Radio Satellites. This collection of 66 articles from QST, the AMSAT Journal, the World Wide Web and other sources offers the following:

- ⇒ An introduction to, and history of, amateur Radio Satellites, including the RS-Series for beginners
- ⇒ A summary of the OSCAR series of satellites.
- ⇒ How to contact the Space Shuttle and MIR.
- ⇒ How school children talk to astronauts in space through the SAREX program.
- ⇒ Descriptions of future satellites, which will have the capability of worldwide communications with an HT.



⇒ A current listing of software programs to help track and find satellites.

and much more useful information for beginners and the experienced satellite operator alike.

The American Radio Relay League, INC., is the membership association of Amateur Radio Operators in the US. Copies of the book (ARRL order no 5595) are available from American Radio dealers or ARRL Publication Sales, 225 Main St. Newington CT 06111-1494, telephone 860-594-0200 or sales, 860-594-0303 (fax). When ordering from ARRL, include \$4.00 for shipping. (Better yet, ask Fred DeSMitt at the next meeting and avoid the shipping costs!)

Retail-\$12.00

## ARRL ANNOUNCES NEW QRP BOOK

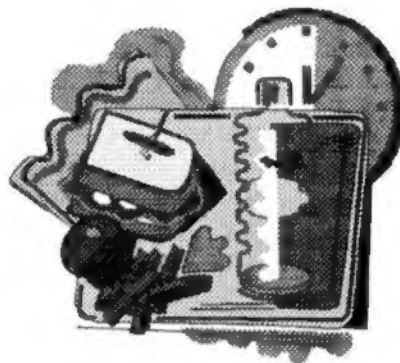
A new book covering QRP projects, construction practices and components has been published by the ARRL. QRP Power is a compilation of the best recent-QRP-related articles from QST, QEX, and The ARRL handbook. It also includes a new article on NNIG's groundbreaking 40-40 transceiver. The authors, Mitchell Lee, KB6FPW, and Dennis Monticelli, AE6C, have experimented with a wide range of enhancements to the original QST article, are highlights of the book.

In chapter one, Rich Arland, K7YHA, provides an introduction to the art of low-power operating. KB1MW/7 and KH6CP cover design and construction practices in Chapter 2. Among the many useful projects in Chapter 3, transceivers and transmitters are a "Build a -One Watt transmitter in a KODAK FILM BOX", by WA3ULH, and "A Small High Performance CW Transceivers," by KK7B. The receivers chapter includes the works of WJLZ, KA7EXM and KK7B. Chapter 5 accessories and components, includes "Build The Camper's Portable Hamahack," by KD7S, and "Refinements in crystal Ladder Filter Design," by W7ZOL and much more. The resources chapter includes a list of publications

## THE MICROVOLT

that will be of interest to all QRPers.

If you are wondering when you'll ever find the time to organize your photocopies of QRP articles, wonder no more! QRP Power brings together the best recent QRP projects for your reading and building enjoyment. QRP POWER \$12.00



## NUCLEAR PICNIC

BY DAVE BARRY  
THE BOSTON GLOBE MAGAZINE  
JUNE, 1995

TODAY'S CULINARY TOPIC IS: HOW TO LIGHT A CHARCOAL FIRE. EVERYBODY LOVES A BACKYARD BARBECUE. FOR SOME REASON, FOOD JUST SEEMS TO TASTE BETTER WHEN IT HAS BEEN COOKED OUTDOORS. WHERE FLIES CAN LAY EGGS ON IT. BUT THERE'S NOTHING WORSE THAN TRYING TO SET FIRE TO A PILE OF BALKY CHARCOAL.

THE AVERAGE BACKYARD CHEF, WISHING TO COOK HAMBURGERS, TRIES TO IGNITE THE CHARCOAL VIA THE SQUIRT, LIGHT, AND WAIT METHOD, WHEREIN YOU SQUIRT LIGHTER FLUID ON A PILE OF BRIQUETTES. LIGHT THE PILE, THEN WAIT UNTIL THEY HAVE TURNED A UNIFORM GRAY COLOR. WHEN I SAY "THEY HAVE TURNED A UNIFORM GRAY COLOR," I AM REFERRING TO THE HAMBURGERS. THE BRIQUETTES WILL REMAIN AS COLD AND LIFELESS AS LEONARD NIMOY.

THE BACKYARD CHEF WILL KEEP THIS UP-SQUIRTING-LIGHTING, WAITING: SQUIRTING, LIGHTING, WAITING, UNTIL THE BACTERIAL LEVEL IN THE SIDE DISHES HAS



REACHED THE POINT WHERE THE POTATO SALAD RISES UP FROM THE BOWL, BLOB-LIKE, AND ATTEMPTS TO MATE WITH THE CORN. THIS IS THE SIGNAL THAT IT IS TIME TO ORDER CHINESE FOOD.

THE PROBLEM IS THAT THE MODERN CHARCOAL, MANUFACTURED UNDER STRICT CONSUMER SAFETY GUIDELINES, IS ONE OF THE LEAST FLAMMABLE SUBSTANCES ON EARTH. ON MORE THAN ONE OCCASION, QUICK THINKING INDIVIDUALS HAVE EXTINGUISHED A RAGING HOUSE FIRE BY THROWING CHARCOAL ON IT. YOUR BACKYARD CHEF WOULD BE JUST AS SUCCESSFUL TRYING TO IGNITE A PILE OF ROCKS.

IS THERE A SOLUTION? YES. THERE HAPPENS TO BE A TECHNIQUE THAT IS GUARANTEED TO GET YOUR CHARCOAL BURNING VERY, VERY QUICKLY, ALTHOUGH YOU SHOULD NOT ATTEMPT THIS TECHNIQUE UNLESS YOU MEET THE FOLLOWING CRITERION: YOU ARE A COMPLETE IDIOT.

I FOUND OUT ABOUT THIS TECHNIQUE FROM AN ALERT READER GEORGE RASKO, WHO SENT ME A LETTER DESCRIBING SOMETHING HE CAME ACROSS ON THE WORLD WIDE WEB, A COMPUTER NETWORK THAT YOU SHOULD REALLY LEARN A LOT MORE ABOUT, BECAUSE AS YOU READ THESE WORDS, YOUR 11-YEAR-OLD IS DOWNLOADING PORNOGRAPHY FROM IT.

BY HOOKING INTO THE WORLD WIDE WEB, YOU CAN LOOK AT A VARIETY OF ELECTRONIC "PAGES", CONSISTING OF DOCUMENTS, PICTURES, AND VIDEOS CREATED BY PEOPLE ALL OVER THE WORLD. ONE OF THESE IS A GUY NAMED (REALLY) GEORGE GOBLE, A COMPUTER PERSON IN THE PURDUE UNIVERSITY ENGINEERING DEPARTMENT. EACH YEAR, GOBLE AND A BUNCH OF OTHER ENGINEERS HOLD A PICNIC IN WEST LAFAYETTE, INDIANA, AT WHICH THEY COOK HAMBURGERS ON A BIG GRILL. BEING ENGINEERS, THEY BEGAN LOOKING FOR PRACTICAL WAYS TO SPEED UP THE CHARCOAL-LIGHTING PROCESS.

"WE STARTED BY BLOWING THE CHARCOAL WITH A HAIR DRYER," GOBLE TOLD ME IN A TELEPHONE INTERVIEW. "THEN WE FIGURED OUT THAT IT WOULD LIGHT FASTER IF WE USED A VACUUM CLEANER."

IF YOU KNOW ANYTHING ABOUT (1) ENGINEERS AND (2) GUYS IN GENERAL, YOU

## THE MICROVOLT

KNOW WHAT HAPPENED: THE PURPOSE OF THE CHARCOAL-LIGHTING SHIFTED FROM COOKING HAMBURGERS TO SEEING HOW FAST THEY COULD LIGHT THE CHARCOAL.

FROM THE VACUUM CLEANER, THE ESCALATED TO USING A PROPANE TORCH, (SOUNDS LIKE SOMETHING SOMEONE WOULD TRY AT FIELD DAY!), THEN AN ACETYLENE TORCH. THEN GOBLE STARTED USING COMPRESSED PURE OXYGEN, WHICH CAUSED THE CHARCOAL TO BURN MUCH FASTER, BECAUSE AS YOU RECALL FROM CHEMISTRY CLASS, FIRE IS ESSENTIALLY THE RAPID COMBINATION OF OXYGEN WITH THE COSINE TO FORM TIGRIS AND EUPHRATES RIVERS (OR SOMETHING ALONG THOSE LINES).

BY THIS POINT, GOBLE WAS GETTING PRETTY GOOD TIMES. BUT IN THE WORLD OF COMPETITIVE CHARCOAL-LIGHTING, "PRETTY GOOD" DOES NOT CUT THE MUSTARD. THUS, GOBLE HIT UPON THE IDEA OF USING -GET READY- LIQUID OXYGEN. THIS IS THE FORM OF OXYGEN USED IN ROCKET ENGINES; IT'S 295 DEGREES BELOW ZERO AND 600 TIMES AS DENSE AS REGULAR OXYGEN. IN TERMS OF RELEASING ENERGY, POURING LIQUID OXYGEN ON CHARCOAL IS THE EQUIVALENT OF THROWING A LIVE SQUIRREL INTO A ROOM CONTAINING 50 MILLION LABRADOR RETRIEVERS. ON GOBLE'S WORLD WIDE WEB PAGE (THE ADDRESS IS [HTTP://GHG.ECN.PURDUE.EDU/](http://ghg.ecn.purdue.edu/)), YOU CAN SEE ACTUAL PHOTOGRAPHS AND A VIDEO OF GOBLE USING A BUCKET ATTACHED TO A 10-FOOT-LONG WOODEN HANDLE TO DUMP 3 GALLONS OF LIQUID OXYGEN (NOT SOLD IN STORES) ONTO A GRILL CONTAINING 60 POUNDS OF CHARCOAL AND A LIT CIGARETTE FOR IGNITION. WHAT FOLLOWS IS THE MOST IMPRESSIVE CHARCOAL-LIGHTING I HAVE EVER SEEN, FEATURING A LARGE FIREBALL THAT, ACCORDING TO GOBLE, REACHED 10,000 DEGREES FAHRENHEIT. THE CHARCOAL WAS READY FOR COOKING IN -THIS HAS TO BE A WORLD RECORD- 3 SECONDS.

THERE'S ALSO A PHOTO OF WHAT HAPPENED WHEN GOBLE USED THE SAME TECHNIQUE ON A FLIMSY \$2.88 DISCOUNT-STORE GRILL. ALL THAT IS LEFT IS A CIRCLE OF CHARCOAL WITH A FEW SHREDS OF METAL IN IT.. "BASICALLY THE GRILL VAPORIZED," SAID GOBLE. "WE WERE THINKING OF RETURNING IT TO THE STORE FOR A REFUND."

LOOKING ART GOBLE'S VIDEOS AND PHOTOS, I BECAME, AS AN AMERICAN, ALL CHOKED UP WITH GRATITUDE AT THE FACT THAT I DO NOT LIVE ANYWHERE NEAR THE ENGINEERS' PICNIC SITE. BUT ALSO, I WAS PROUD OF MY COUNTRY FOR PRODUCING GUYS WHO CAN BE READY TO BAR-BE-QUE. IN LESS TIME THAT IT TAKES FOR GUYS IN LESS ADVANCED NATIONS, SUCH AS FRANCE, TO SPIT.

WILL THE 3-SECOND BARRIER EVER BE BROKEN? WILL ENGINEERS COME UP WITH A NEW, MORE POWERFUL CHARCOAL LIGHTING TECHNOLOGY? IT'S SOMETHING FOR ALL OF US TO PONDER THIS SUMMER AS WE SIT OUTSIDE,

CHEWING OUR HAMBURGERS, EVERY NOW AND THEN, GLANCING IN THE DIRECTION OF WEST LAFAYETTE, INDIANA, LOOKING FOR A MUSHROOM CLOUD.

## ■ ALL IN THE FAMILY

IT'S ABOUT TIME FOR EVERYONE TO START THINKING ABOUT WHO THEY WOULD LIKE TO NOMINATE FOR THIS YEAR'S OFFICERS. ALTHOUGH WE HAVE A GREAT CROWD OF CLUB OFFICERS THAT I DON'T THINK WANTS TO LEAVE, EXCEPT FOR THE FACT THAT THE PREZ SAYS HE NEEDS TO BE REPLACED, WE NEED TO REMEMBER THAT NOVEMBER IS JUST AROUND THE CORNER AND WE NEED TO START THINKING. (IT'S ABOUT TIME!

## THE MICROVOLT ATTENTION CLUB



## MEMBERS!

UARC intends to publish the club membership roster, and to make the roster available on our web site. (<http://www.xmission.com/~arc>) The printed version will be available for sale (to defer the cost of the printing) at a future club meeting. (probably beginning in November).

A few members have voiced their objection to having this information made available to the world at large. If you wish to have your name omitted from the directory, please notify Gary Openshaw or Cokie Eddy no later than October 15, 1996. After that, the roster will go to the printer. The listing will include your name, callsign, address, and telephone number. Please be aware that even if you have UARC omit your name, it will make very little difference to your privacy. Your full name, date of birth, and home address are readily available from other sources of public information. Several Ham Radio Look-Up Sites are found on the "web". The one I like is at the University of Arkansas.

(<http://www.ualr.edu/~hamradio/index.html>)

With this search engine, any Ham in the United States can be quickly located either by callsign, or from a fragment of a name or address. I used this site to build a list of all hams in Utah by downloading all zip codes starting with "84".

Other sources of information are also available to find people from a fragment of

information. I located an old school friend who has been AWOL for over 20 years at a site called Whowhere. (<http://www.whowhere.com>). This is a nationwide collection of telephone listings (Ed- and I believe other sources as I am NOT listed in the telephone book but I AM listed in whowhere.) If you have a phone you can be found here. (Ed-bought a house, registered a car, paid tax, etc...you can run, but you cannot hide...not anymore!)

As you can see, it is almost impossible to remain anonymous in the "Information Age". Our club has nearly 700 members at this time. The intent of publishing this information is to assist club members in getting better acquainted. While there is always the possibility for abuse, the club officers feel that the benefits outweigh the risks.

Chuck Johnson- Treasurer



### *Speaking Of Abuse...*

I have been receiving letters in the mail from a member of the club. He shall remain anonymous, but the letters sound much like his on air persona. He makes statements like "No problem." This person knows who he is. If I continue to receive weird letters from this guy I will have to go to the authorities-Ed KC7MDV.

## THE MICROVOLT

# LookupUSA

Speaking of Internet....

How many of you have wanted to get on the Internet but can not bring yourself to pay the outrageous prices that some servers are asking?

I have found the simple solution! If you are interested in getting high quality internet service at just pennies the price that you would be paying someone else, give me a call and I can set you up! This internet service would be like \$19.95 a month unlimited access and time.

Call me at 2801762. I can even have a representative come out and install everything for you!

-Cokie

### *HF NETS: (by request)*

<i>Beehive</i>	<i>daily</i>	<i>12:30 PM</i>	<i>7.272</i>
<i>UT Code Net</i>	<i>daily</i>	<i>7:30 PM</i>	<i>3.708</i>
<i>FARM</i>	<i>daily</i>	<i>8:00 PM</i>	<i>3.937</i>
<i>MARA Voice</i>	<i>Saturday</i>	<i>7:30 AM</i>	<i>3.918</i>
<i>MARA CW</i>	<i>Saturday</i>	<i>8:00 AM</i>	<i>3.723</i>
<i>RACES*</i>	<i>3rd Sat.</i>	<i>8:00 AM</i>	<i>3.918</i>
<i>UT MARA</i>	<i>Saturday</i>	<i>8:30AM</i>	<i>3.873</i>

*\*Note: RACES Net is on VHF in even months, and on HF during off months. You should have a RACES number to check in.*